

# Analyzing Development Trajectories and Emerging Themes in University-Industry Collaboration (UIC) Research

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ABSTRACT

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### Abstract

The fastest adoption rate and the controversy issues in University-Industry Collaboration (UIC) give the purpose for this study to understand the developmental trajectory as well as its knowledge diffusion network. Through a systematic and quantitative approach, this study identifies the recent University-Industry Collaboration (UIC) research themes, which are the issues discussed by a coherent and growing subset of this literature.

First, by main path analysis, we shall find out the main technological trend in different stages, we retrieved from the Web of Science database 893 articles through a carefully designed database search and an additional screen process. We apply the Girvan-Newman edge-betweenness clustering method to the citation network to find the groups that are coherent in their citation relationships. The method does not require its users to specify the number of groups in advance.

Second, we conduct an assignee network analysis to visualize the associated technology of University-Industry Collaboration (UIC) on a global level.

The findings indicate that the University-Industry Collaboration (UIC) research can be systematically clustered, resulting in an interconnected ecosystem consisting of three levels: individual, organisational and institutional, respectively. Thus, this review presents the immense contribution that the analysis of University-Industry Collaboration (UIC) makes to various research streams. Building on these findings and employing qualitative content analysis on the clustered publications, the paper develops a research agenda that encourages future investigations of previously overlooked features of University-Industry Collaboration (UIC) in general, an

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